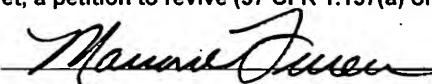


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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 4115-180 |
| INTERNATIONAL APPLICATION NO. PCT/US03/24238 | INTERNATIONAL FILING DATE 8/1/2003 | U.S. APPLICATION NO. <i>If known, see 37 CFR 1.5</i> 107522454 |
| TITLE OF INVENTION MANZAMINE-PRODUCING ACTINOMYCETES | | |
| APPLICANT(S) FOR DO/EO/US HILL, Russell T.; HAMANN, Mark T.; PERAUD, Olivier; and KASANAH, Noer | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 20. <input type="checkbox"/> Other items or information: | | |

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|--|--------------|---|------------|--------------------------------------|---------|------------------------|----|-----------------------|----|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) | | INTERNATIONAL APPLICATION NO. PCT/US03/24238 | | ATTORNEY'S DOCKET NUMBER 4115-180 | | | | | |
| 21. The following fees are submitted: | | | | | | | | | |
| <input checked="" type="checkbox"/> a) Basic national fee | | \$300.00 | | \$ 300.00 | | | | | |
| <input checked="" type="checkbox"/> b) Examination fee | | \$500.00 | | \$ 500.00 | | | | | |
| <input checked="" type="checkbox"/> c) Search fee | | \$200.00 | | \$ 200.00 | | | | | |
| TOTAL OF ABOVE CALCULATIONS = \$1,000.00 | | | | \$1,000.00 | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | | RATE | | | | | |
| 42 -100 = 0 | /50 = 0 | | | x \$250.00 | \$ 0.00 | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | | | | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ | | | | | |
| Total claims | 18 - 20 = 0 | 0 | x \$50.00 | \$ 0.00 | | | | | |
| Independent claims | 4 - 3 = 1 | 1 | x \$200.00 | \$ 200.00 | | | | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | | + \$360.00 | \$ 0.00 | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1,200.00 | | | | | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/4 | | | | | | | | | |
| SUBTOTAL = \$ 600.00 | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). + \$ 0.00 | | | | | | | | | |
| TOTAL NATIONAL FEE = \$ 600.00 | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ 0.00 | | | | | | | | | |
| TOTAL FEES ENCLOSED = \$ 600.00 | | | | | | | | | |
| <table border="1"> <tr> <td>Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td>Amount to be charged:</td> <td>\$</td> </tr> </table> | | | | | | Amount to be refunded: | \$ | Amount to be charged: | \$ |
| Amount to be refunded: | \$ | | | | | | | | |
| Amount to be charged: | \$ | | | | | | | | |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>083284</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> | | | | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | | | | | |
| SEND ALL CORRESPONDENCE TO: Steven J. Hultquist INTELLECTUAL PROPERTY/ TECHNOLOGY LAW P.O. BOX 14329 Research Triangle Park, NC 27709 | | | | | | | | | |
|  Marianne Fuierer NAME 39983 REGISTRATION NUMBER | | | | | | | | | |

01/522454
DT01 Rec'd PCT/PTL 20 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|--|---|-------------|---------------|------------------|
| In re United States Patent Application of: |) | Docket No.: | 4115-180 | |
| Applicant(s): | Russell T. Hill, et al. |) | Examiner: | Not Yet Assigned |
| Application No.: | New U.S. National Stage Application of PCT International Application No. PCT/US03/24238 |) | Art Unit: | Not Yet Assigned |
| Int'l Filing Date: | 1 August 2003 |) |) |) |
| Priority Date: | 1 August 2002(U.S. Provisional Patent Application No. 60/400,330) |) | Customer No.: |) |
| Title: | MANZAMINE-PRODUCING ACTINOMYCETES |) |) |) |

23448

EXPRESS MAIL CERTIFICATE

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.



Candace White

January 20, 2005

Date

EO 003 785 047 US

Express Mail Label Number

**SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION
(NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO.
PCT/US03/24238 AND CLAIMING PRIORITY OF U. S. PROVISIONAL PATENT
APPLICATION NO. 60/400,330**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

10/522454
DT01 Rec'd.PCT/PT 20 JAN 2005

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/US03/24238 and claiming priority of U. S. Provisional Patent Application No. 60/400,330. A copy of the PCT International application and related documents as originally filed are also included. Further included is a Preliminary Amendment, Sequence Listing, Statement of Identity, Computer Readable disk comprising the sequence listing, return postcard, a credit card form in the amount of \$600.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Marianne Fuierer at (919) 419-9350.

Respectfully submitted,



Marianne Fuierer
Registration No. 39,983
Attorney for Applicants

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